Textbook Alignment to the Utah Core – Algebra 1

This alignment has been completed using an "Independent Alignment Vendor" from the USOE approved list	
(<u>www.schools.utah.gov/curr/imc/indvendor.html</u> .) Yes No	
Name of Company and Individual Conducting Alignment:Eisemann Communication/Rebecca Nelson	
A "Credential Sheet" has been completed on the above company/evaluator and is (Please check one of the following):	
X On record with the USOE.	
☐ The "Credential Sheet" is attached to this alignment.	
Instructional Materials Evaluation Criteria (name and grade of the core document used to align): Algebra 1 Core Curriculum	
Title: Holt Algebra 1 © 2007 ISBN#: 0-03-0358272	
Publisher: Holt, Rinehart and Winston	
Overall percentage of coverage in the Student Edition (SE) and Teacher Edition (TE) of the Utah State Core Curriculum:)
Overall percentage of coverage in ancillary materials of the Utah Core Curriculum:%	

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	OARD I: Students will expand number sense to understan olve problems with real numbers.	d, perf	orm operations,		
	Percentage of coverage in the student and teacher edition for Standard I:100				
Овје	CTIVES & INDICATORS		rerage in Student Edition(SE) and acher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
numb	tive 1.1: Represent real numbers as points on the er line and distinguish rational numbers from onal numbers.				
a.	Define a rational number as a point on the number line that can be expressed as the ratio of two integers, and points that cannot be so expressed as irrational.	SE	34		
b.	Classify numbers as rational or irrational, knowing that rational numbers can be expressed as terminating or repeating decimals and irrational numbers can be expressed as non-terminating, non-repeating decimals.	SE	34-36, 64, 66		
d.	Classify <i>pi</i> and square roots of non-perfect square numbers as irrational.	SE	34-36, 64, 66		
d.	Place rational and irrational numbers on a number line between two integers.	SE SE*	33 35		
	tive 1.2: Compute fluently and make reasonable				
estima	ates with rational and irrational numbers.				
a.	Simplify, add, subtract, multiply, and divide expressions with square roots.	SE	811-815, 816-821, 839, 840		
b.	Evaluate and simplify numerical expressions containing rational numbers and square roots using the order of operations.	SE	805-810, 838, 840		

OBJECTIVES & INDICATORS		Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
c.	Compute solutions to problems, represent answers in exact form, and determine the reasonableness of answers.	SE Z10-Z13, Z14-Z16, Z30-Z31, Z32-Z33, 14-19, 20-25, 33, 40-45, 46-51, 77-79, 80-82, 84-90, 92-95, 96-98, 100-106, 115, 117-118, 120, 122, 124, 128, 131, 136, 138, 139, 142-143, 159, 174-179, 180-182, 183-185, 250-251, 255, 261, 265, 623, 798		
d.	Calculate the measures of the sides of a right triangle using the Pythagorean Theorem.	SE 641, 643, 807, S68		
Perce	ntage of coverage in the student and teacher edition for	Percentage of coverage not in students		covered in
Perce Stand		the ancillary material for Standard I Coverage in Student Edition(SE) and	I:% Coverage in Ancillary Material	Not covered in TE, SE or
Perce Stand Objec	ntage of coverage in the student and teacher edition for lard II: 100 % CTIVES & INDICATORS	the <i>ancillary material</i> for Standard I	I:% Coverage in Ancillary	Not covered
Perce Stand	ntage of coverage in the student and teacher edition for lard II:%	the ancillary material for Standard I Coverage in Student Edition(SE) and	I:% Coverage in Ancillary Material	Not covered in TE, SE or
Perce Stand Objec	ntage of coverage in the student and teacher edition for lard II:100	the ancillary material for Standard I Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.) SE 310-313, 314-317, 320-325, 349-352,	I:% Coverage in Ancillary Material	Not covered in TE, SE or
Perce Stand Objec a.	ntage of coverage in the student and teacher edition for lard II:	the ancillary material for Standard I Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.) SE 310-313, 314-317, 320-325, 349-352, 353-355	I:% Coverage in Ancillary Material	Not covered in TE, SE or

Ob:	4: 2.2 M - d-1 d : 4 b l b '			1
	tive 2.2 Model and interpret problems having a			
	ant rate of change using linear functions.	ar.	272 277 270 202 204 445	
a.	Write algebraic expressions or equations to generalize	SE	272-277, 279, 283, 284, 446,	
	visual patterns, numerical patterns, relations, data sets, or		452, 458-459, 766-771, 790-	
	scatter plots.		795, 797, 836, 840	
b.	Represent linear equations in slope-intercept form, $y =$	SE	296-299, 300-302,303-305, 306-	
	mx + b, and standard form, $Ax + By = C$.		308, 309, 311, 320-325, 326-	
			331, 333, 334-337, 338-340,	
			348, 349-352, 353-355, 396,	
			791, 862	
c.	Distinguish between linear and non-linear functions by	SE	296-299, 300-302, 791, 862,	
	examining a table, equation, or graph.		S126	
		ar.	210 212 214 217 220 225	
d.	Interpret the slope of a linear function as a rate of change in real-world situations.	SE	310-313, 314-317, 320-325,	
	in rear-world situations.		349-352, 353-355	
Objec	tive 2.3: Represent and analyze linear relationships			
using	algebraic equations, expressions, and graphs.			
a.	Write the equation of a line when given two points or the	SE	320-325, 334, 338-340, 342,	
	slope and a point on the line.		343-344, 345-347	
b.	Approximate the equation of a line given the graph of a	SE	339, 341-346	
	line.		,	
c.	Identify the <i>x</i> - and <i>y</i> -intercepts from an equation or graph	SE	303-308, 369, 372	
	of a line or a table of values.			
d.	Graph linear relations and inequalities by plotting points,	SE	298-299, 300-302, 303-305,	
	by finding x- and y intercepts, or by using the slope and		306-308, 334-337, 338-340,	
	any point on the line.		341-344, 345-347, 348	

STANI	STANDARD III: Students will develop fluency with the language and operations of algebra to analyze and represent relationships.				
	ercentage of coverage in the <i>student and teacher edition</i> for tandard III:100			vered in	
Овјес	ctives & Indicators	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓	
Objec mono	tive 3.1: Simplify polynomials and the quotient of mials.				
a.	Simplify and evaluate monomial expressions and formulas.	SE Z3-Z4, 6-11, 46-51, 65, 66, 83, 107-111			
b.	Add and subtract polynomials.	SE 482-483, 484-489, 513, 514			
c.	Multiply monomials by a polynomial.	SE 492-493, 495-496			
d.	Multiply binomials.	SE 494-496, 513, 514			
e.	Simplify the quotient of monomials using positive exponents.	SE 467-473, 475, 512, 514			
	tive 3.2: Solve and interpret linear equations and alities in various situations including real-world ems.				
a.	Solve single-variable linear equations and inequalities algebraically and graphically.	SE 77-82, 84-90, 92-98, 100-106, 113, 152, 153, 156, 174-179, 180-185, 187, 188-193, 194- 200, 202-207, 217-219, 220, 414-420, 433, 434			
b.	Solve real-world problems involving constant rates of change.	SE 310-311, 315-317, 318-319			

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c.	Solve equations for a specified variable.	SE 107-111, 113, 153, 156		
d.	Solve proportions that include algebraic first-degree expressions.	SE 114-120, 121-126, 154, 156		
•	tive 3.3: Solve and interpret pairs of linear equations			
and in	equalities.			
a.	Solve systems of two linear equations graphically and algebraically with and without technology.	SE 382, 383-388, 390-396, 397-403, 406-411, 413, 430-432, 434		
b.	Determine the number of possible solutions for a system of two linear equations.	SE 406-411, 413, 432, 434		
c.	Graph a system of linear inequalities and identify the solution.	SE 421-426, 427, 433, 434		
Objec	tive 3.4: Factor polynomials with common monomial			
facto	rs and factor simple quadratic expressions.			
a.	Find the greatest common monomial factor of a polynomial.	SE 531-537, 557, 575, 578		
b.	Factor trinomials with integer coefficients of the form $x_2 + bx + c$.	SE 540-547, 557, 576, 578		
c.	Factor the difference of two squares and perfect square trinomials.	SE 548-554, 561-564		
•	tive 3.5: Solve quadratic equations using factoring or sing square roots.			
a.	Solve quadratic equations that can be simplified to the form $x_2 = a$ where $a \ge 0$ by taking square roots.	SE 636-641, 661, 665, 666		
b.	Solve quadratic equations using factoring.	SE 630-635, 661, 664, 666		

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c.	Write a quadratic equation when given the solutions.	SE* 590-597, 599-605, 622-627		
STAN	DARD IV: Students will understand concepts from statistic	ics and apply statistical methods to so	olve problems.	
	ntage of coverage in the <i>student and teacher edition</i> for ard IV:100%	Percentage of coverage not in stude the ancillary material for Standard		overed in
	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
Object ate dat	etive 4.1: Objective 1: Summarize, display, and analyze a.			
a.	Collect, record, organize, and display a set of data with at least two variables.	SE 678-686, 687-693, 711, 750, 751, 754		
b.	Determine whether the relationship between two variables is approximately linear or non-linear by examination of a scatter plot.	SE 262-269, 270, 279, 283, 284		
c.	Characterize the relationship between two linear related variables as having positive, negative, or approximately zero correlation.	SE 262-269, 283, 284		
Object ate date	etive 4.2: Estimate, interpret, and use lines fit to			
a.	Estimate the equation of a line of best fit to make and test conjectures.	SE 265, 268		
b.	Interpret the slope and <i>y</i> -intercept of a line through data.	SE* 265, 268		
c.	Predict <i>y</i> -values for given <i>x</i> -values when appropriate using a line fitted to bivariate numerical data.	SE 268		